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Artificial Intelligence for Power Electronics and Energy Systems Applications

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Deadline for manuscript submissions:

closed (20 April 2023)

Message from the Guest Editors

Dear Colleagues,

In modern society, artificial intelligence (AI) is being used in various industries and has brought about significant benefits. With this in mind, the Guest Editor is inviting submissions to a Special Issue of Energies on the topic of "Artificial Intelligence for Power Electronics and Energy Systems Applications." It is crucial to predict how AI can be used to accelerate a more equitable energy transition throughout the industry and how our trust in this technology can be strengthened. In the energy sector, research on how to efficiently manage and utilize energy sources for power electronics-based distributed energy resources (DERs) is required. In addition, it is expected that the role of AI will increase in the construction of large-scale infrastructures, such as the management of the energy demand for transportation and buildings, and the construction of smart cities and smart grids. In particular, the efficient energy use and reduction using Al in autonomous vehicles are expected to make a significant contribution to increasing driving distance.











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Message from the Editor-in-Chief

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